

New or Replacement Windows (Fenestration) in Existing Homes 2016 Energy Code Permit Guide

City of Dublin Building & Safety Division Ph: (925) 833-6620

Permit Date:	Permit Number:		CA Climate Zone: 12
Permit Address:	City and Zip Code:		
REPLACEMENT ONLY or MIN	OR INCREASE OF TOTAL AREA: A	nswer both o	nuestions
Are you adding more than 7!		answer both	14000000
	ws, sliding glass doors, skylights, and	d any doors w	ith ≥ 50% glass
☐ Yes. Use SUBSTANTIA	L INCREASE OF TOTAL AREA section be	low.	-
\square No. Install only windo	ws that meet the applicable requireme	ents in the tabl	e below. (lower values are better)
Are you adding more than 10	5 ft²of <i>skylight</i> area?		
	L INCREASE OF TOTAL AREA section be	low.	
	Replacement Windows Replacement Skylights		
	(and added windows up to 75 sq ft.)		ed skylights up to 16 sq ft.)
Maximum U-Factor*	0.40		0.55
Maximum SHGC*	0.35		0.30
	as a percent of conditioned floor a		
(conditioned floor	area of home: sqft)		,, <u> </u>
No. Install only windows thYes. This is a major change Repeat the calculation above us	than 20% of conditioned floor areat meet the applicable requirements in to the energy use of the house. The Pesing just west facing existing and ac	the table belo rformance Cor dded fenestra	npliance Approach must be used**. ation areas. Is the west-facing
fenestration greater than 5% of	conditioned floor area? (Does not	apply to Clim	ate Zone 3)
· · · · · · · · · · · · · · · · · · ·	at meet the applicable requirements in		
☐ Yes. This is a major change	to the energy use of the house. The Pe	rformance Cor	npliance Approach must be used**.
	Maximum U-Factor*	0.32	
	Maximum SHGC*	0.25	
	SHGC does not apply in C	Z 3	





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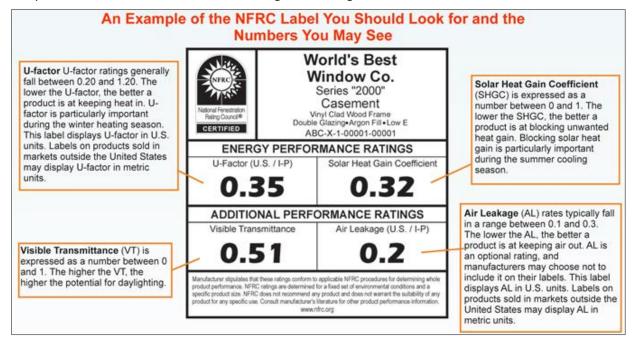
Building Inspector:

Each new or replacement fenestration product must have a factory-installed National Fenestration Rating Council (NFRC) Label attached at time of final inspection. The installed U-Factor and SHGC values must be equal to or lower than the selected table values above (value may be area weighted average).

Reference the CF1R-ENV-01-E Fenestration Installation Certificate, and – if applicable - the CF2R-ENV-02-E Area Weighted Average Calculation Worksheet.

Required Forms:

- 2016-CF1R-ALT-01-E: Certificate of Compliance, Prescriptive Residential Alterations (sections A, D, E, F, and Declaration Statement)
- 2016-CF2R-ENV-01-E: Certificate of Installation, Fenestration Installation
- Optional: 2016-CF1R-ENV-02-E: Area Weighted Average Calculation Worksheet



For more information:

- Visit www.energy.ca.gov/title24/2016standards
- Visit the NRFC website: www.NFRC.org
- Contact the energy code hotline at (800) 772-3300 or email: title24@energy.state.ca.us
- Contact the BayREN Codes & Standards Program by email: codes@bayren.org
- * U-Factor and SHGC are performance ratings available from the manufacturer and shown on a temporary NFRC label attached to new windows (see above). Note: Lower values are better. **Do not remove label until building inspector verifies numbers.** Weight-averaging by area is allowed. See 2016-CF1R-ENV-02-E.
- ** Some alterations to existing homes, especially adding windows, will substantially increase energy consumption. Additional conservation measures are likely required to offset this. The performance approach is a way to determine what measures will cost-effectively offset the additional use. Contact an energy consultant at www.cabec.org

